IHS Standards Expert

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October 2012

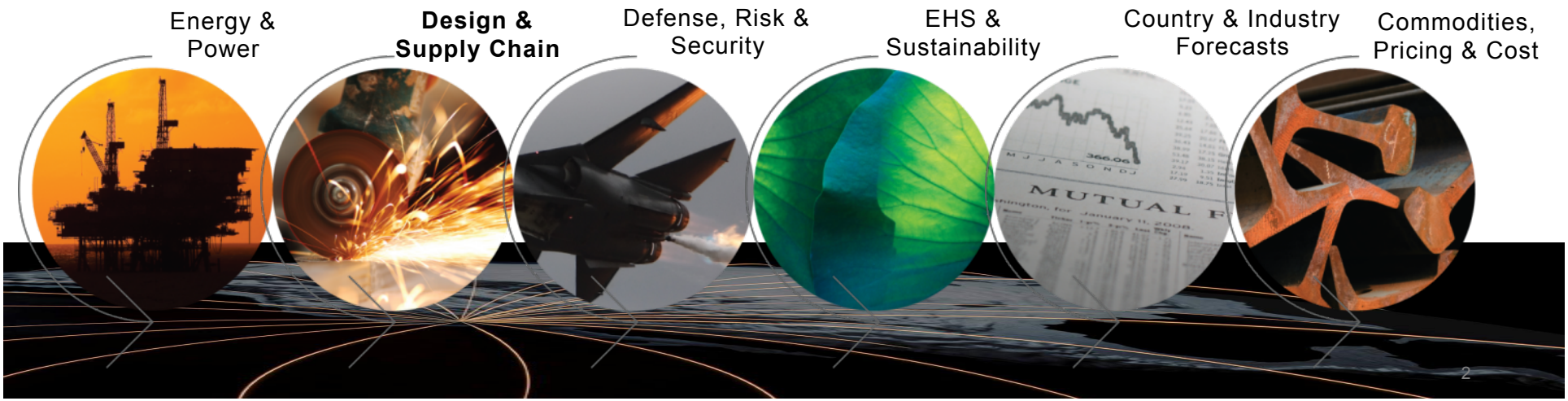
IHS – A leading information provider

- Founded in 1959**:** To provide product catalogs for aerospace engineers
- Today: Leading global source of critical information and insight dedicated to providing the most complete and trusted information and expertise
- Employs 6,000 people in 30 countries speaking 50 languages

Strong, Growing Products and Financials:

- Public, NYSE IHS (2005)

Areas of Expertise & Content



IHS Standards Management Overview

- Manage standards content from over 370 sources
  - 1.6 Million standardization documents
  - New and revised documents processed and posted daily
- Deliver content to users efficiently
- Tools to help users manage standards in their work environment
- Tools to help administrators control and monitor the use of standards in their organizations
- Support and training for users worldwide

Standards Content Available – Page 1

CONSTRUCTION SPECIFICATION INSTITUTE - 2004 Version
HISTORICAL DoD STANDARDIZATION SERVICE - COMPLETE
ESD - ELECTROSTATIC DISCHARGE ASSOCIATION - ACTIVE COLLECTION
IEST - INSTITUTE OF ENVIRONMENTAL SCIENCES & TECHNOLOGY
BATTELLE MMPDS - METALLIC MATERIALS PROPERTIES DEVELOP STDS HANDBOOK
USA - MIL SPECS COMPLETE
NBBI - THE NATIONAL BOARD OF BOILER & PRESSURE VESSEL INSPECTORS (Non-Member)
NCS - NATIONAL CAD STANDARDS
NECA - NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION
NETA - INTERNATIONAL ELECTRICAL TESTING ASSOC COLLECTION NTWK
NFPA - NATIONAL FIRE PROTECTION ASSOCIATION - COMPLETE
ESDU - AERODYNAMICS SERIES COMPLETE
ESDU - FLUID MECHANICS - INTERNAL FLOW - AEROSPACE SERIES COMPLETE
ESDU - STRUCTURES SERIES COMPLETE
ASME/BPVC COMPLETE W/O REFERENCED STANDARDS
BPVC - Grandfather 2001 to Present
INTERNATIONAL CODE COUNCIL - 2000 CODES (Includes ICC 1997 Codes)
ASSE/SAFE - AMERICAN SOCIETY OF SAFETY ENGINEERS
AIA - AEROSPACE INDUSTRIES ASSOC OF AMERICA - NONMEMBER
ASTM INTL - COLLECTION
AIAA - AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS
AA - THE ALUMINUM ASSOCIATION
ABMA - AMERICAN BEARING MANUFACTURERS ASSOCIATION
ASHRAE - AMERICAN SOCIETY OF HEATING, REFRIGERATING AND
ASCE - AMERICAN SOCIETY OF CIVIL ENGINEERS
AATCC - AMERICAN ASSOCIATION OF TEXTILE CHEMIST AND COLORISTS
ASME INTERNATIONAL - COLLECTION

Standards Content Available – Page 2

ASA - ACOUSTICAL SOCIETY OF AMERICA
ARINC - AERONAUTICAL RADIO INCORPORATED - ACTIVE
AWS - AMERICAN WELDING SOCIETY COLLECTION
BHMA - BUILDERS HARDWARE MANUFACTURERS ASSOCIATION
AWWA - AMERICAN WATER WORKS ASSOCIATION - STANDARDS
CGA - COMPRESSED GAS ASSOCIATION
ACI - AMERICAN CONCRETE INSTITUTE - ACTIVE COLLECTION
TIA - TELECOMMUNICATIONS INDUSTRY ASSOC - SECTOR STANDARDS
ECA - ELECTRONIC COMPONENTS, ASSEM & MATERIALS - SECTOR STANDARDS
TECHAMERICA - formerly - GEIA - GOVERNMENT ELECTRONICS & INFO TECH ASSOC - SECTOR STANDARDS
API - AMERICAN PETROLEUM INSTITUTE - COLLECTION (Includes 591N, 592, 593, 594, APIIM & 596)
IEEE COLLECTION - DATA PAGES
IPC - (MEMBER)
IESNA - ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA
ISA - THE INSTRUMENTATION, SYSTEMS & AUTOMATION SOCIETY
NSF INTERNATIONAL
NEMA - NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
ASQ - AMERICAN SOCIETY FOR QUALITY
SSPC - SOCIETY FOR PROTECTIVE COATINGS
SMACNA - SHEET METAL & AIR CONDITIONING
SAE INTL COMPLETE (2 Plus loc or 31 Plus Potential Users)
MSS - MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE AND FITTINGS
HISTORICAL ASME INTERNATIONAL - 1986 FORWARD - ERC
HISTORICAL ASTM INTERNATIONAL - 1986 FORWARD - ERC

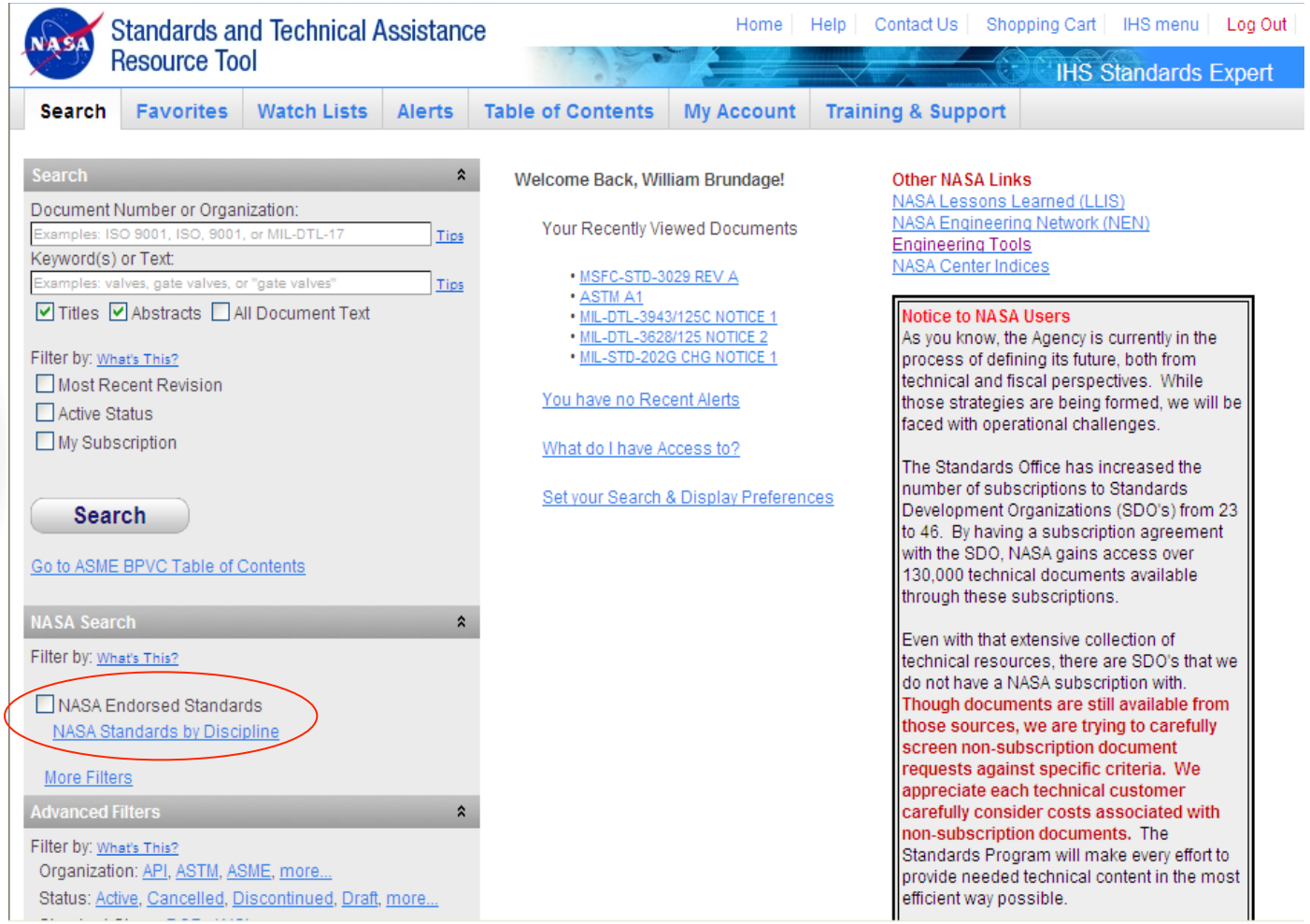
Standards Content Available – Page 3

UL - UNDERWRITERS LABORATORIES COLLECTION w/Directories
ISO - INTERNATIONAL ORGANIZATION FOR STANDARDIZATION - COLLECTION
IEC - COLLECTION

User Interface: Enhanced Search and Ease of Use

... To the Standards product, with enhanced search and ease of use

NASA Endorsed

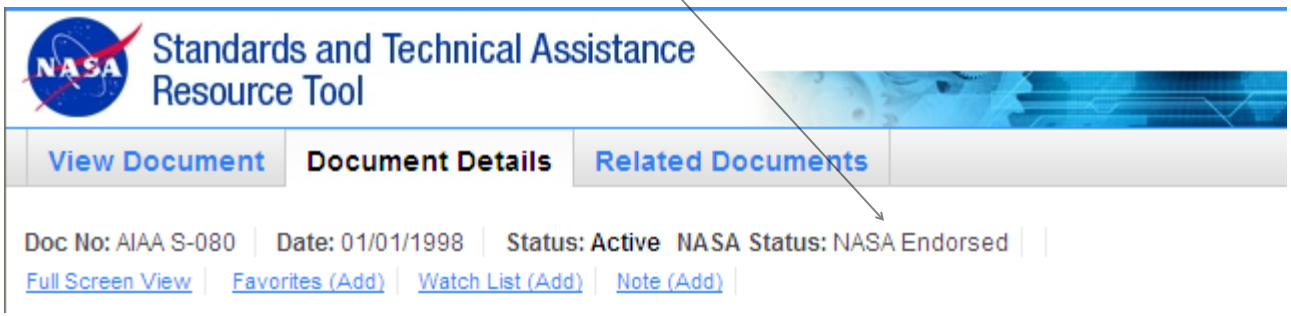


NASA Endorsed Updates

NASA Endorsed is displayed on the Results Page

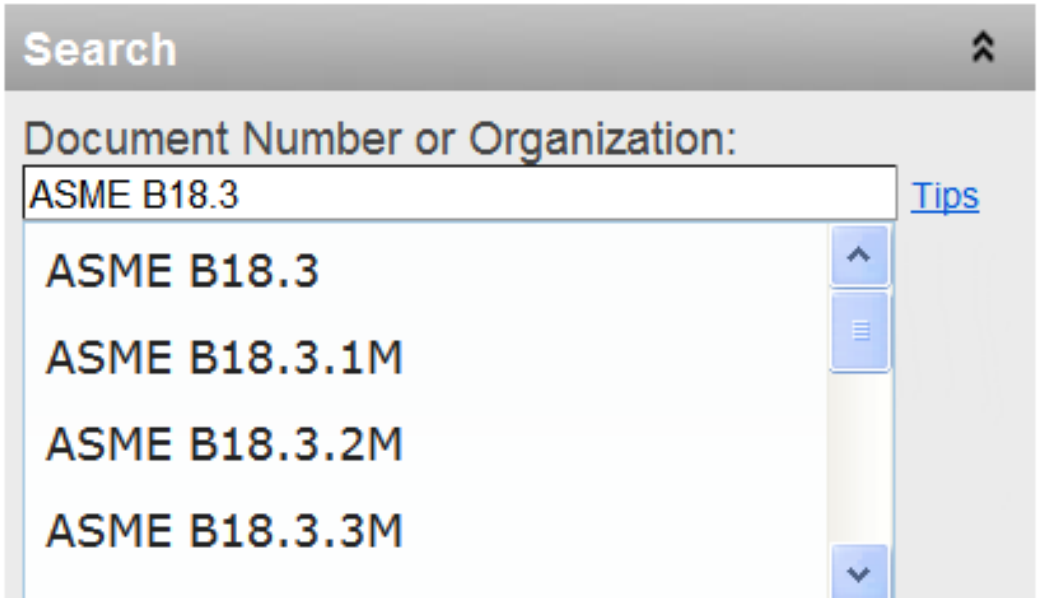
7.	AFSPCMAN 91-710 VOLUME 4 Details | History	Active	07/01/2004	RANGE SAFETY USER REQUIREMENTS MANUAL VOLUME 4 - Controlled Distribution - Must contact Air Force for access NASA Endorsed
8.	View AIAA G-077 Details | History NASA LL	Active	01/14/1998	Guide for Verification and Validation of Computational Fluid Dynamics Simulation NASA Endorsed
9.	View AIAA S-080 Details | History NASA LL | NASA AN	Active	01/01/1998	Space Systems - Metallic Pressure Vessels, Pressurized Structures, and Pressure Components NASA Endorsed

As well as on many of the Tabs (View, Details, Related Docs, etc.)



Search Capabilities
Document Number Searching – "Type Ahead"

As you enter a Document Number search, the "Type Ahead" tool begins working after your third keystroke

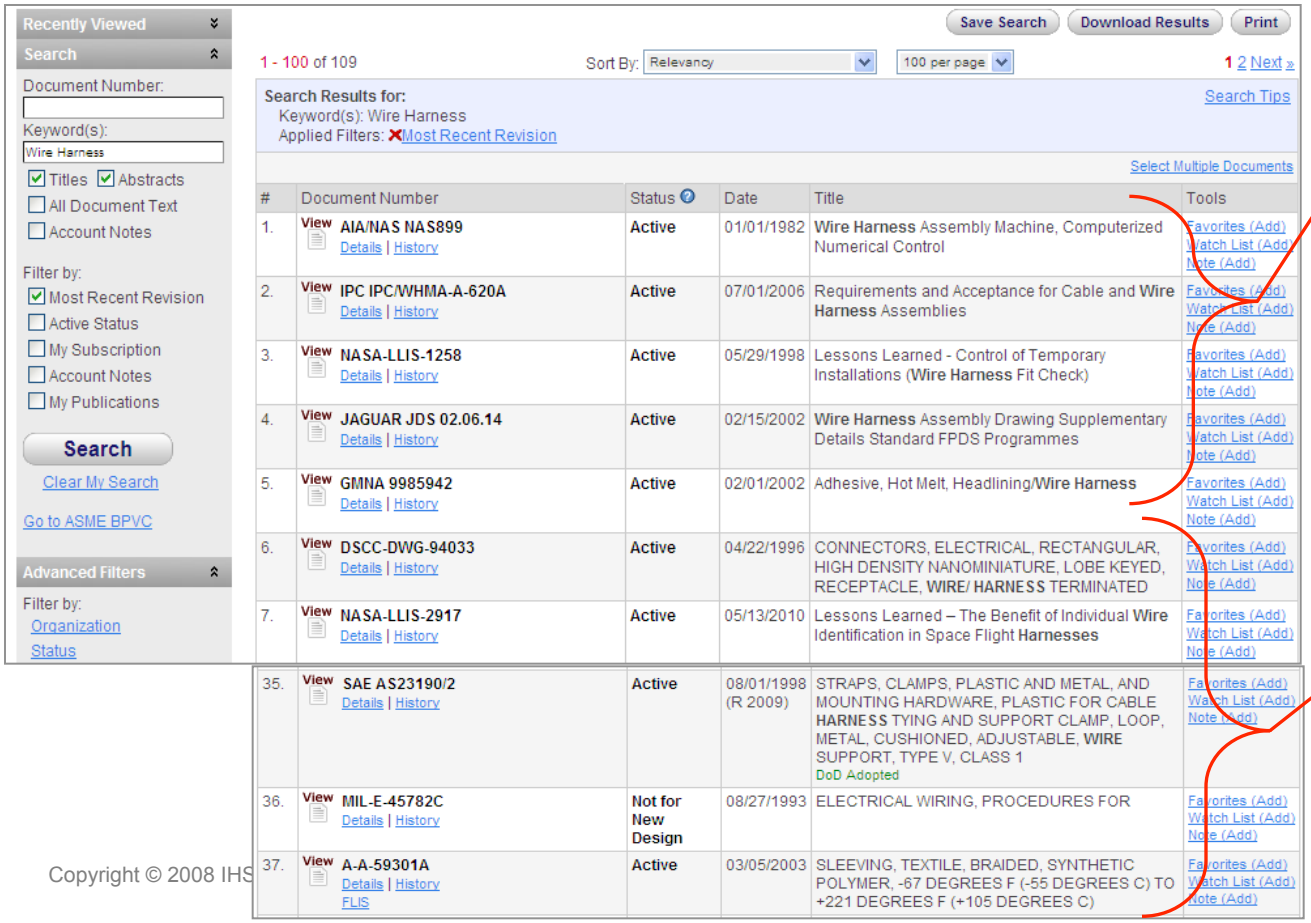


"Type Ahead" looks ahead in the index, and will work with or without the organization

As you type, suggested matches are displayed. You may select one from the list or just go ahead with your search.

Search Results
Relevancy – Text Searching

- A search for **Wire Harness**(without quotes) with Titles and Abstracts selected.



The best matches come to the top of the results

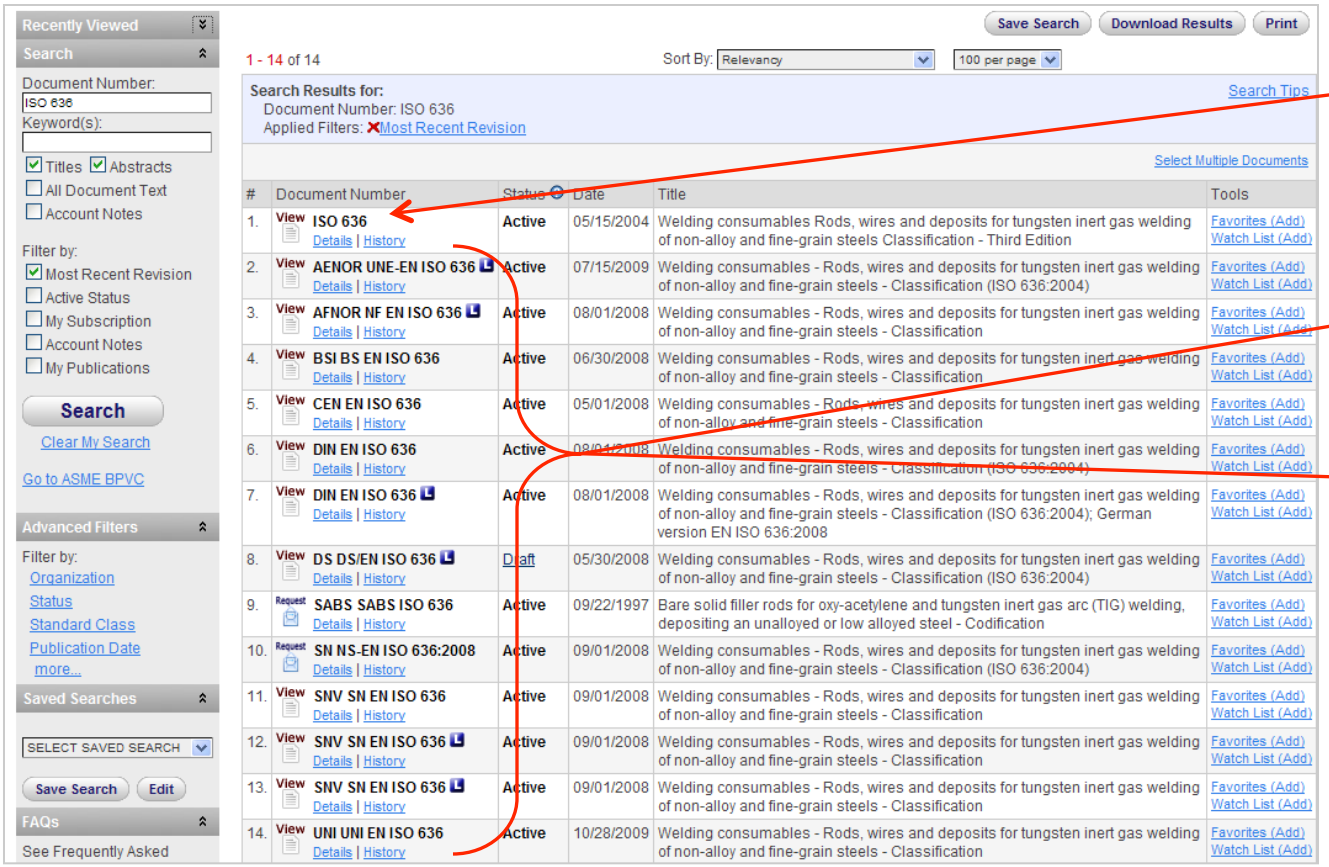
Notice that matches in the title are shown in **bold**

Lesser matches fall lower in the list.

When you don't see **bold** text in the title, the match is either in the Abstract or the Full Text depending on your search

Search Enhancements
Relevancy – Document Number

- A search for **ISO 636** in the Document Number field.



Exact matches come to the top of the results

Partial matches are next

In general, these harmonized, adoptions will have similar relevancy and will sort alphabetically

Search Enhancements
Search Operators

IHS Standards Expert V5.0 supports the following search operators

- **AND** (include all words)
  - A "space" between search terms is an **AND** operator.
  - The **+ (plus)** sign can also be used.

- **OR** (include any words)

- **AND NOT** (exclude words)
  - Uses must enter **AND NOT** before the words to exclude.
    - Exception: "not" by itself can only be used at the beginning of a search string
  - The **– (minus)** sign can also be used to exclude words.

- **Wildcard**
  - The *** (asterisk)** is used as the wildcard operator to replace one or more letters at the beginning or end of a word.

- **Quotation Marks** can be used to group terms and search for phrases.

Search Enhancements
Boolean Operators – Using “and” with “or”

Document Number Search criteria: NASA and (1850 or 2090.1 or 8735.2)

Search Results for:
Document Number: NASA (1850 or 2090.1 or 8735.2)
Applied Filters: ✕Most Recent Revision

Search Tips

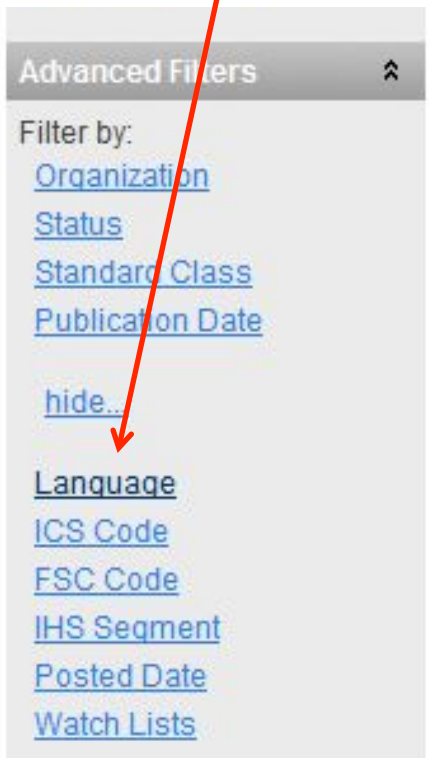
Select Multiple Documents

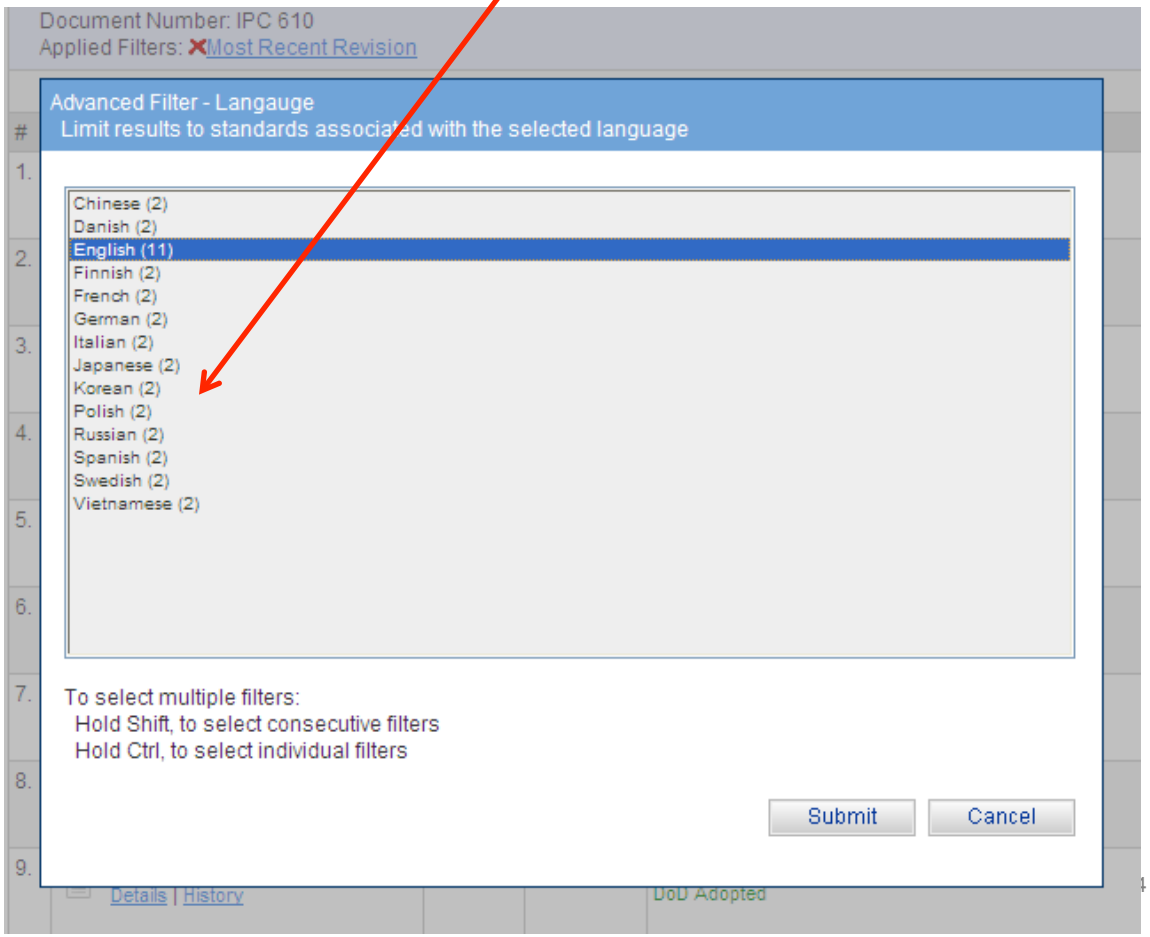
#	Document Number	Status	Date	Title	Tools
1.	View **NASA-LLIS-1850** Details | History	**Active**	04/25/2008	Lessons Learned - Lessons Learned from the KSC Checkout and Launch Control System (CLCS) - Final Briefing	Favorites (Add) Watch List (Add)
2.	View **NASA NPG 2090.1** Details | History	Revised	11/01/2002	NONDISCRIMINATION IN FEDERALLY ASSISTED AND FEDERALLY CONDUCTED PROGRAMS OF NASA - DISCRIMINATION COMPLAINT PROCESSING PROCEDURES AND GUIDELINES (SEE NASA NPR 2090.1)	Favorites (Add) Watch List (Add)
3.	View **NASA NPG 8735.2** Details | History	Revised	08/15/2000	MANAGEMENT OF GOVERNMENT SAFETY AND MISSION ASSURANCE SURVEILLANCE FUNCTIONS FOR NASA CONTRACTS (SEE NASA NPR 8735.2)	Favorites (Add) Watch List (Add)
4.	View **NASA NPR 1850.1** Details | History	**Active**	05/11/2010	QUALITY ASSURANCE OF THE NASA MEDICAL CARE SYSTEM	Favorites (Add) Watch List (Add)
5.	View **NASA NPR 2090.1** Details | History	Revised	11/01/2002	NONDISCRIMINATION IN FEDERALLY ASSISTED AND FEDERALLY CONDUCTED PROGRAMS OF NASA - DISCRIMINATION COMPLAINT PROCESSING PROCEDURES AND GUIDELINES (FORMERLY NASA NPG 2090.1)	Favorites (Add) Watch List (Add)
6.	View **NASA NPR 8735.2 REV A W/CHG 1** Details | History	**Active**	08/02/2006	Management of Government Quality Assurance Functions for NASA Contracts (w/change 1, dated 8/9/2010)	Favorites (Add) Watch List (Add)
#	Document Number	Status	Date	Title	Tools

Search Enhancements
New Advanced Filter for Document Language

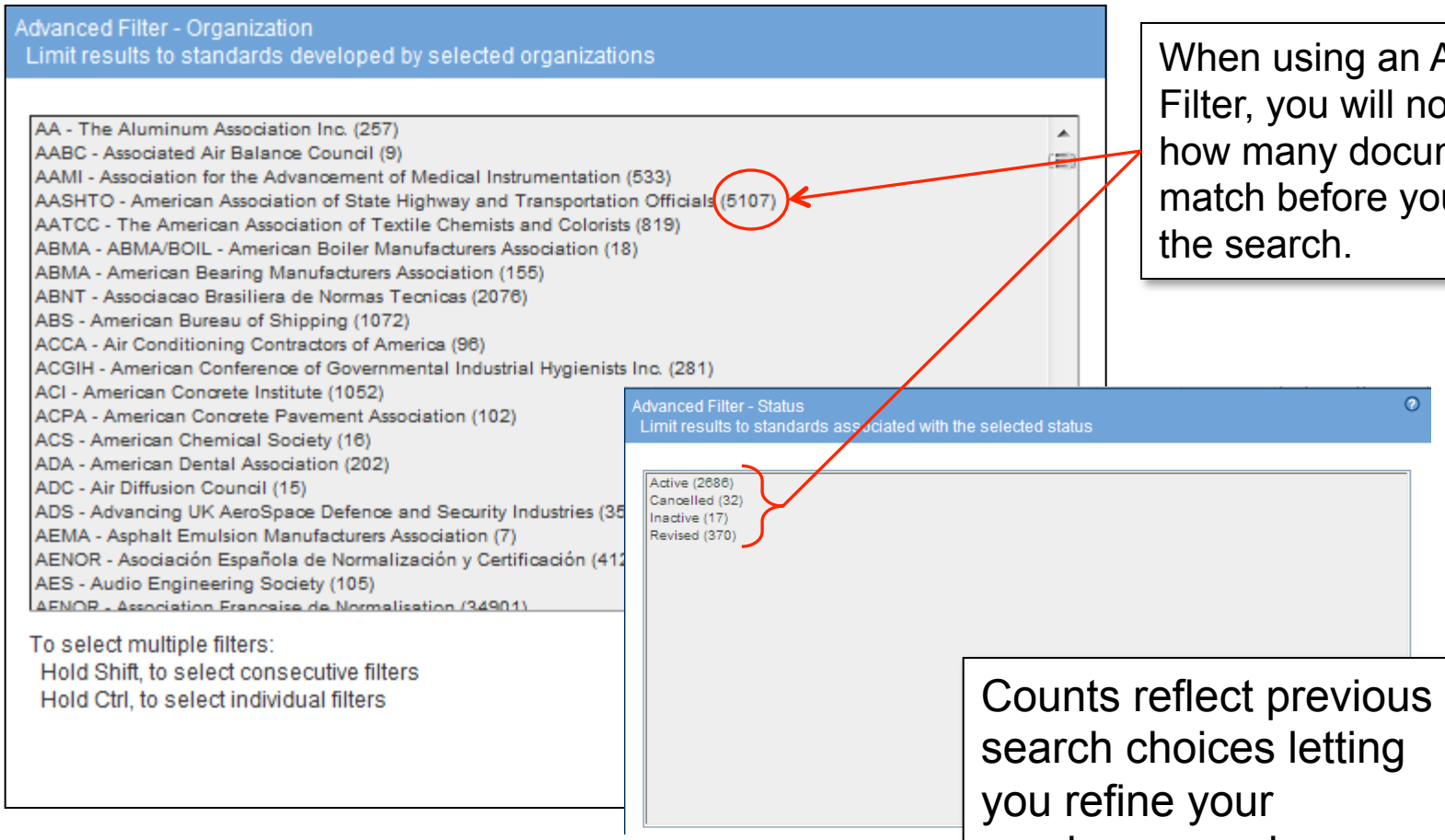
New Language Filter under Advanced Filters

You can filter for documents published in preferred language(s)





Search Enhancements
Document Counts on Advanced Filters



When using an Advanced Filter, you will now see how many documents match before you submit the search.

Counts reflect previous search choices letting you refine your previous search.

Adding Favorites

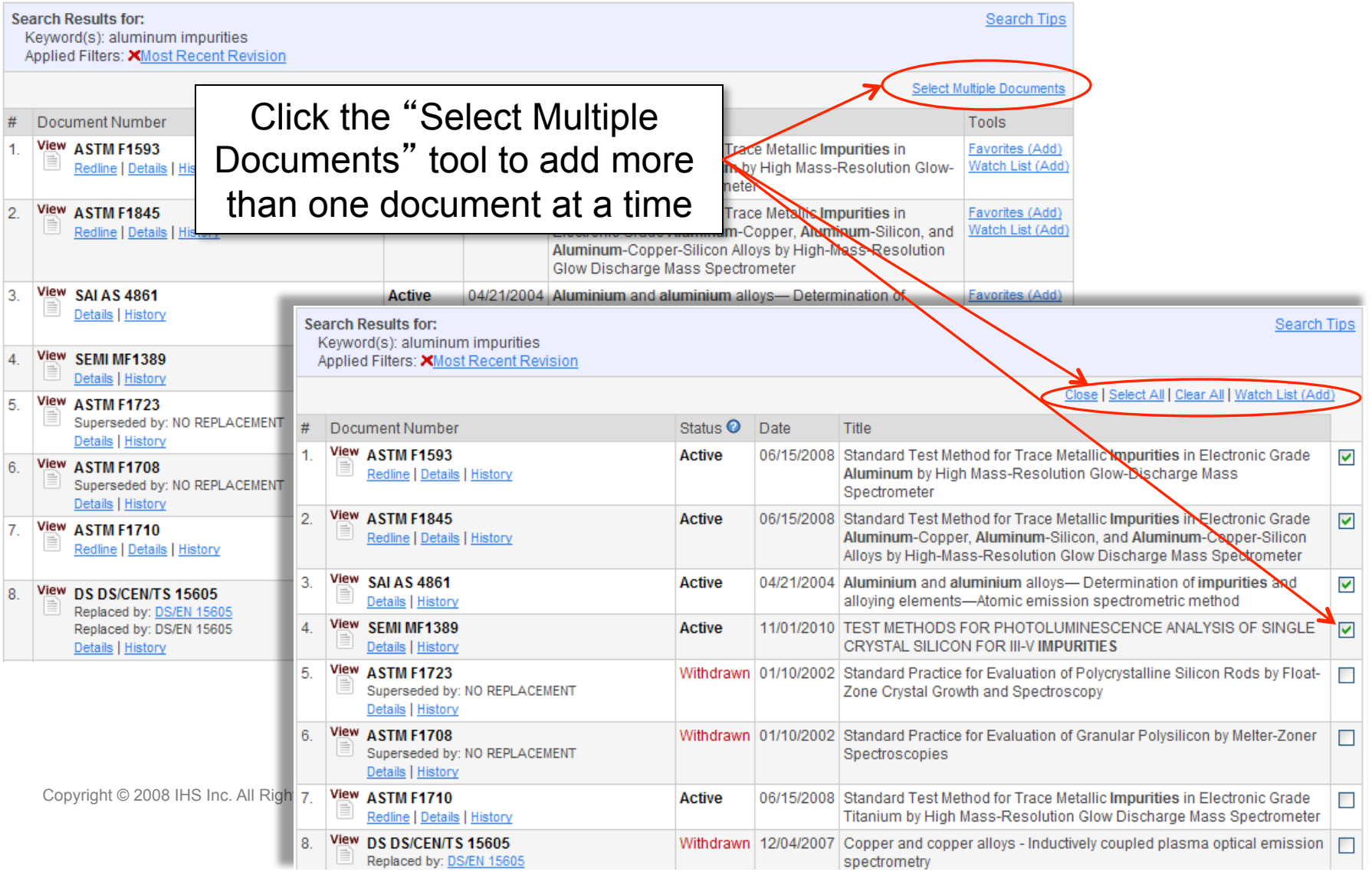
Single click to add document to Favorites, with no screen refreshes to add multiple documents

Search Results for:
Keyword(s): aluminum impurities
Applied Filters: ✖Most Recent Revision

Search Tips

#	Document Number	Status	Date	Title	Tools
1.	View **ASTM F1593** Redline | Details | History	**Active**	06/15/2008	Standard Test Method for Trace Metallic **Impurities** in Electronic Grade **Aluminum** by High Mass-Resolution Glow-Discharge Mass Spectrometer	√ Favorites (Remove) Watch List (Add)
2.	View **ASTM F1845** Redline | Details | History	**Active**	06/15/2008	Standard Test Method for Trace Metallic **Impurities** in Electronic Grade **Aluminum**-Copper, **Aluminum**-Silicon, and **Aluminum**-Copper-Silicon Alloys by High-Mass-Resolution Glow Discharge Mass Spectrometer	√ Favorites (Remove) Watch List (Add)
3.	View **SAI AS 4861** Details | History	**Active**	04/21/2004	**Aluminium** and **aluminium** alloys— Determination of **impurities** and alloying elements—Atomic emission spectrometric method	√ Favorites (Remove) Watch List (Add)
4.	View **SEMI MF1389** Details | History	**Active**	11/01/2010	TEST METHODS FOR PHOTOLUMINESCENCE ANALYSIS OF SINGLE CRYSTAL SILICON FOR III-V **IMPURITIES**	√ Favorites (Remove) Watch List (Add)
5.	View **ASTM F1723** Superseded by: NO REPLACEMENT Details | History	Withdrawn	01/10/2002	Standard Practice for Evaluation of Polycrystalline Silicon Rods by Float-Zone Crystal Growth and Spectroscopy	Favorites (Add) Watch List (Add)
6.	View **ASTM F1708** Superseded by: NO REPLACEMENT Details | History	Withdrawn	01/10/2002	Standard Practice for Evaluation of Granular Polysilicon by Melter-Zoner Spectroscopies	Favorites (Add) Watch List (Add)
7.	View **ASTM F1710** Redline | Details | History	**Active**	06/15/2008	Standard Test Method for Trace Metallic **Impurities** in Electronic Grade Titanium by High Mass-Resolution Glow Discharge Mass Spectrometer	Favorites (Add) Watch List (Add)
8.	View **DS DS/CEN/TS 15605** Replaced by: DS/EN 15605 Replaced by: DS/EN 15605 Details | History	Withdrawn	12/04/2007	Copper and copper alloys - Inductively coupled plasma optical emission spectrometry	Favorites (Add) Watch List (Add)

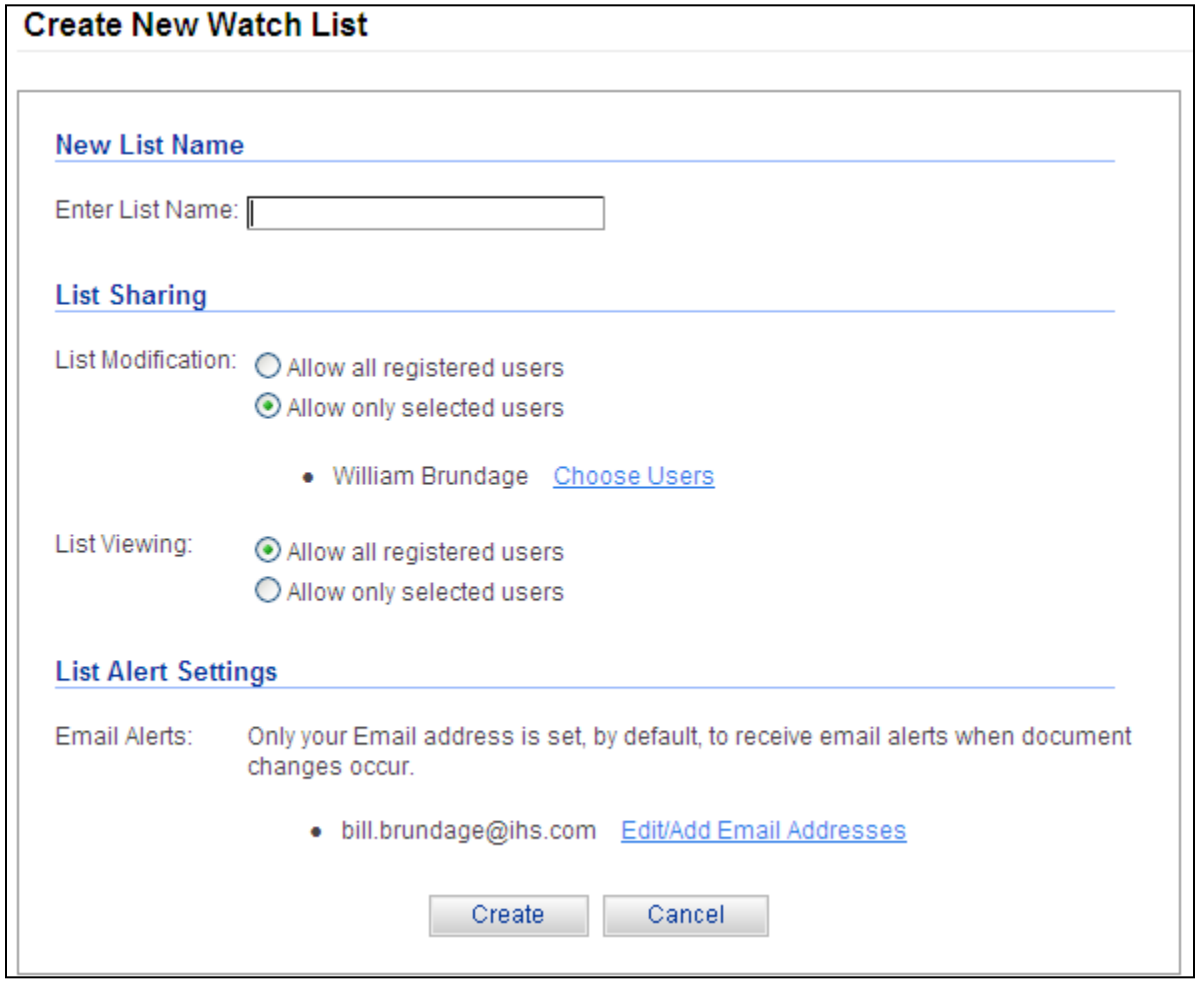
Selecting Documents for a Watch List



Easier to Use
Creating a new Watch List

A new single screen to create a Watch List.

Previously, this task was a four-screen process.



Easier to Use
Watch Lists (Modifying Users)

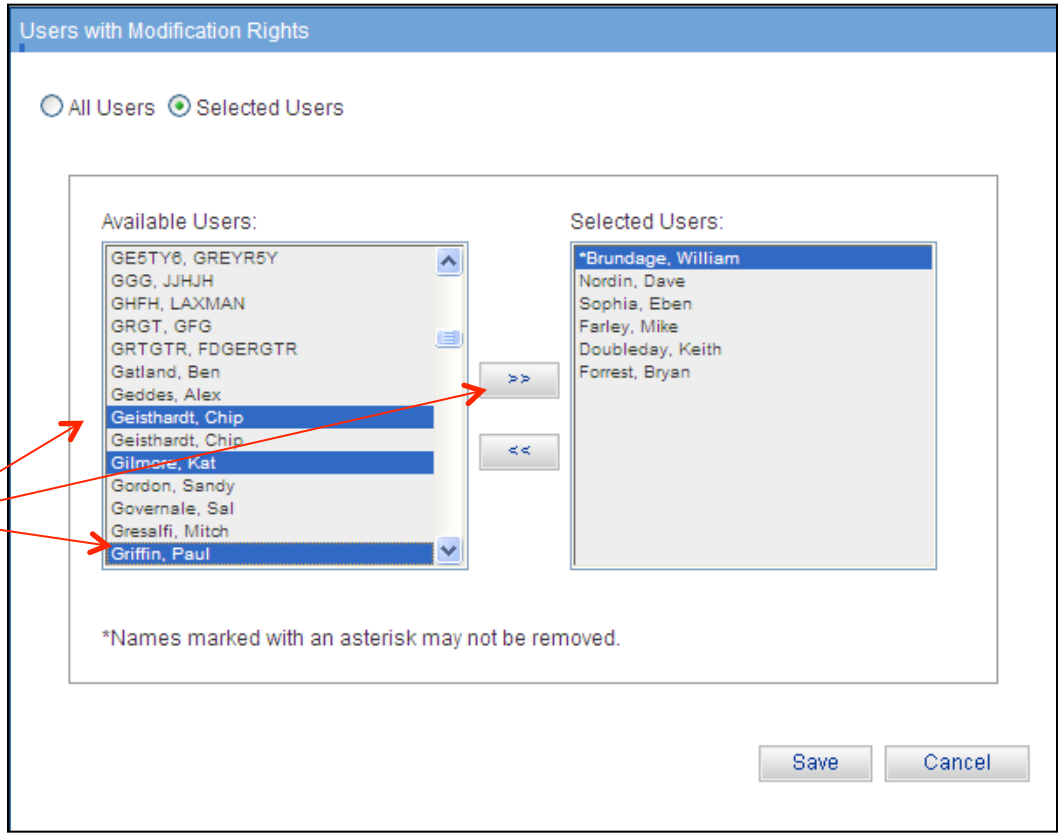
- Adding / Removing users from Watch Lists is quicker and easier then ever before!

To start the process is the same. Simply click on Add/Edit Users.

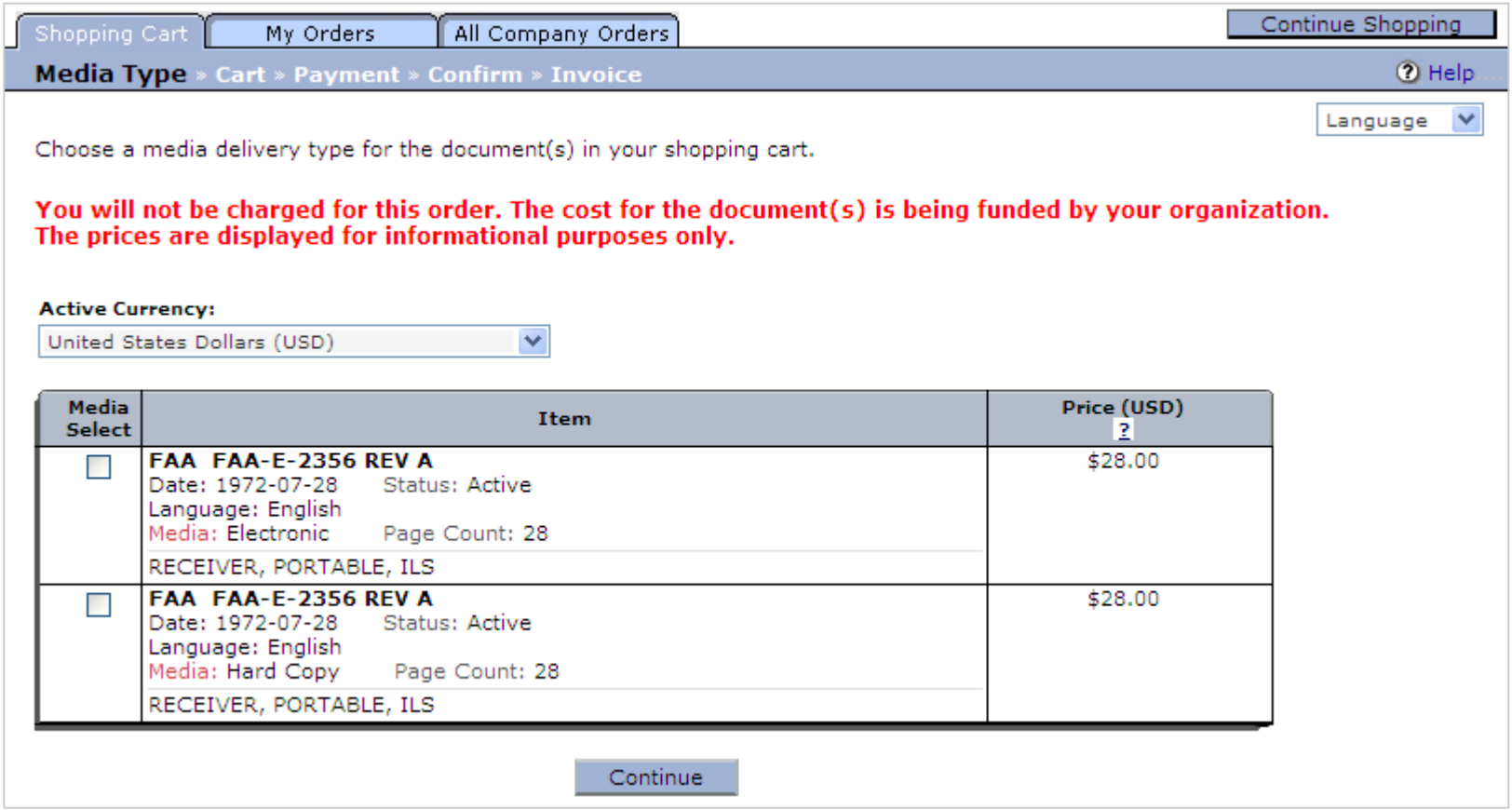
Then select all the users you want added and click on >> to add them all at one time.

To Remove users, select those you want removed and click <<

This processed is further enhanced by the speed in which the updates are made.



Shopping Cart & Special Deposit Account (SDA)

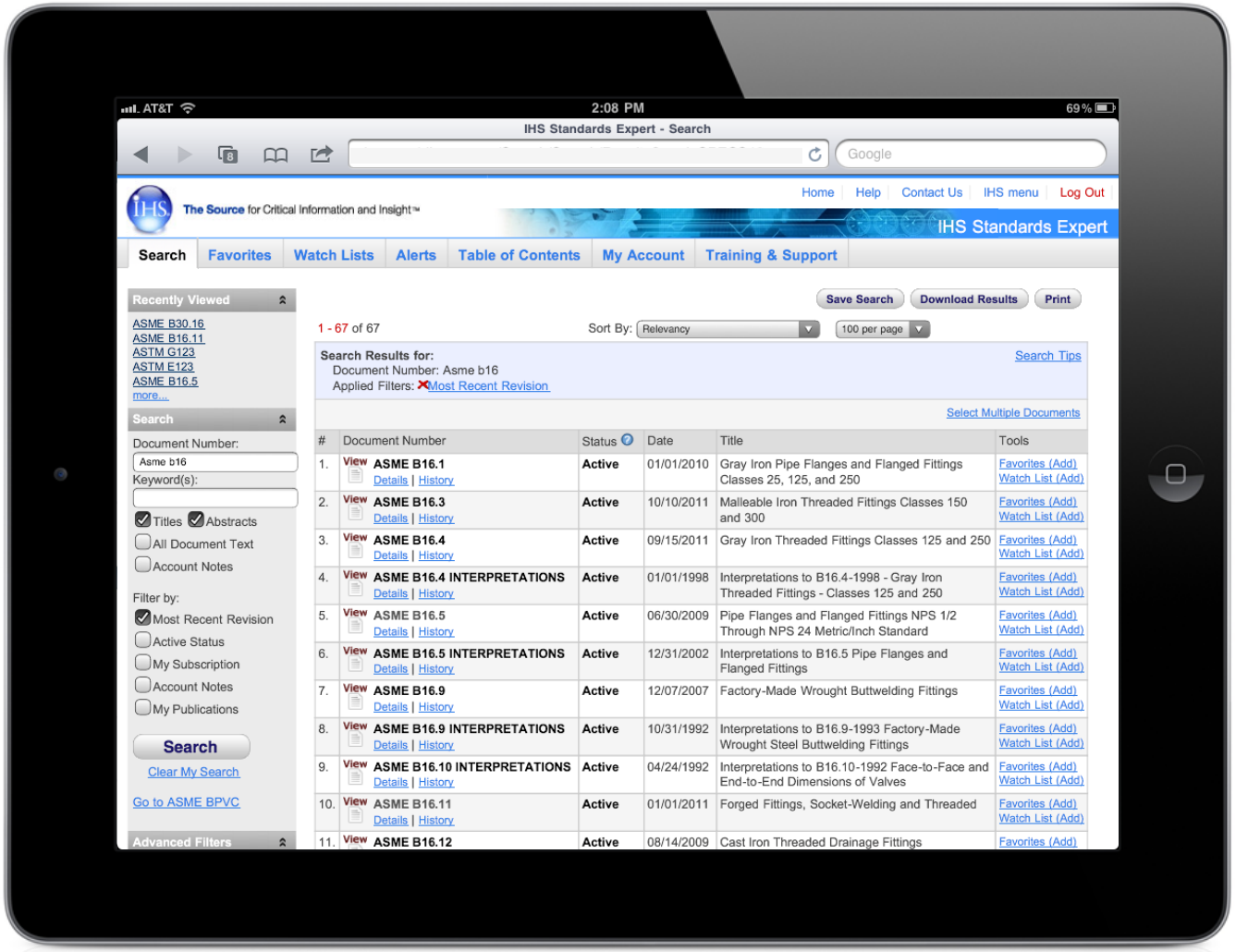


Other new features

iPad and iPhone Compatible &

Redline Comparison Documents

iPad / iPhone Compatibility
Supporting the mobile Safari browser

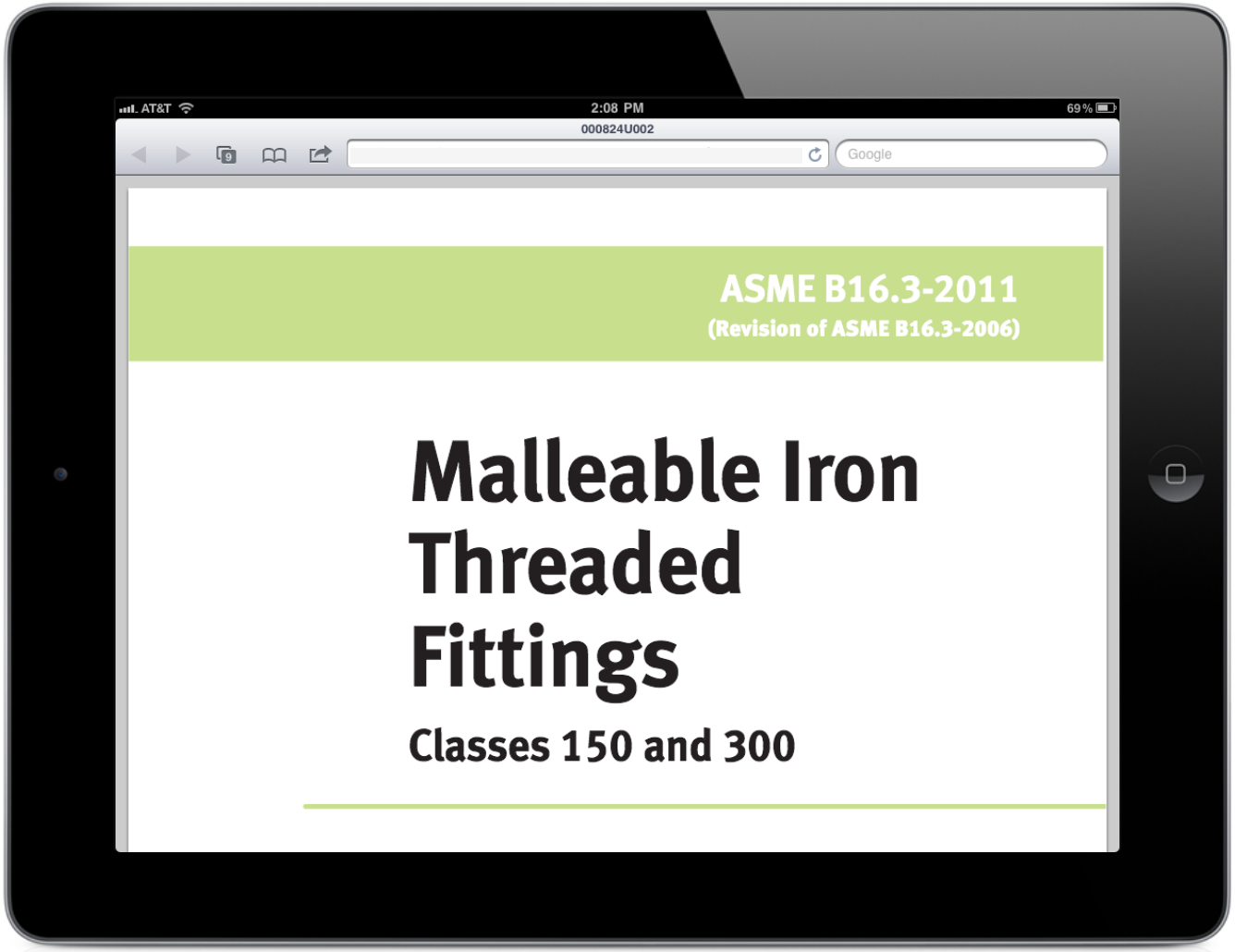


You will now be able to access the tools from the Safari browser on the iPad and iPhone.

This isn't an "app"; it uses the internet browser.

You must be able to navigate to your regular login process.

iPad / iPhone Compatibility
Supporting the mobile Safari browser



The Safari browser only supports the direct delivery of a PDF.

iPad / iPhone users will not have the additional tools, like References, Details and Favorites when viewing a document.

Notice that the top tabs and the left hand blocks are suppressed on these devices.

At this time, secure PDF files are not supported on these devices.

Redline Comparison Documents
Managing Document Changes

Pilot Program!

Some standards will be available in a comparison format that shows the actual changes to the text. Note this pilot program will be available a little after the this release. The first SDOs we will create Redlines for is SAE, NEMA, and, API.

Not hooked to Version 5 Release Will be release sometime after the standards Release.

#	Document Number	Status	Date
1.	View SAE AMS2374E Details | History	Active	06/01/2011
2.	View SAE AMS2371J Redline | Details | History	Active	06/01/2011
3.	View SAE AMS2248G Details | History	Active	03/01/2011
4.	View SAE AMS6474A Details | History	Active	02/01/2008
5.	View SAE AMS5561G Details | History	Active	04/01/2007
6.	View SAE AMS-STD-753A Details | History	Non-current	05/01/2006 (R 2012)
7.	View SAE AMS-QQ-S-763B Details | History	Non-current	02/01/2003 (R 2006)

SAE Aerospace
An SAE International Group

AEROSPACE MATERIAL SPECIFICATION

SAE AMS2371 REV. J

Issued 1969-11
Revised 2011-06

Superseding AMS2371H

Quality Assurance Sampling and Testing
Corrosion and Heat-Resistant Steels and Alloys
Wrought Products and Forging Stock

RATIONALE

AMS2371J results from a five-year review and update of the specification.

1. SCOPE

#8. (10 chars) Changed From
AMS 2371H

This ... quality assurance sampling and testing procedures used to determine conformance to applicable specification requirements of wrought corrosion and heat-resistant steel and alloy products and of forging stock.

1.1 Attributes included in detail herein are: Composition, tensile properties, macrostructure, and micro-inclusion rating. Other requirements are included in Table 2.

1.2 Quality assurance sampling and testing procedures for forgings are covered in AMS2374.

2. APPLICABLE DOCUMENTS

The issue of the following documents in effect on the date of the purchase order forms a part of this specification to the extent specified herein. The supplier may work to a subsequent revision of a document unless a specific document issue is specified. When the referenced document has been cancelled and no superseding document has been specified, the last published issue of that document shall apply.

2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

AMS2374 Quality Assurance Sampling and Testing, Corrosion and Heat-Resistant Steel and Alloy Forgings

2.2 ASTM Publications